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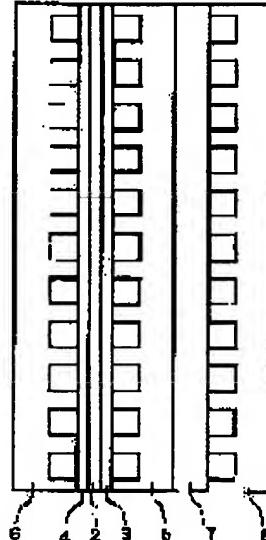
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(54) SOLID POLYMER ELECTROLYTE FUEL CELL AND FUEL CELL STACK

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a fuel cell of high energy utilization efficiency by utilizing thermal energy as well generated by electrochemical reaction.

SOLUTION: The solid polymer electrolyte fuel cell 1 is provided with a solid polymer electrolyte film 2, an oxygen electrode 3 and a fuel electrode 4 pinching the solid polymer electrolyte film 2, a field plate 5 on the oxygen electrode side contacting a side face opposite to the one facing the solid polymer electrolyte film 2 of the oxygen electrode 3, a field plate 6 at the fuel electrode side contacting a side face of opposite to the one facing the solid polymer electrolyte film 2 of the fuel electrode 4, a thermoelectric conversion element contacting a side face opposite to the one facing the oxygen electrode 3 of the field plate 5 side, and a field plate 8 for coolant contacting a side face opposite to the one facing the oxygen electrode side field plate 5 of the thermoelectric conversion element 7.



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